

Product datasheet for AP20307PU-N

Product datasneet for AP20307PO-N

IKK alpha (CHUK) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of IKK α/β protein.

Formulation: Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2

State: Aff - Purified

State: Liquid purified Ig fraction

Concentration: 1.0 mg/ml

Purification: Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 85 kDa

Gene Name: conserved helix-loop-helix ubiquitous kinase

Database Link: Entrez Gene 12675 MouseEntrez Gene 309361 RatEntrez Gene 1147 Human

015111



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Background:

The transcription factor NF κ B is retained in the cytoplasm in an inactive form by the inhibitory protein I κ B. Activation of NF κ B requires that I κ B be phosphorylated on specific serine residues, which results in targeted degradation of I κ B. I κ B kinase α (IKK α), previously designated CHUK, interacts with I κ B α and specifically phosphorylates I κ B α on Serine 32 and 36, the sites that trigger its degradation. IKK α appears to be critical for NF κ B activation in response to proinflammatory cytokines. Phosphorylation of I κ B by IKK α is stimulated by the NF κ B inducing kinase (NIK), which itself is a central regulator for NF κ B activation in response to TNF and IL-1. The functional IKK complex contains three subunits, IKK α , IKK β and IKKy (also designated NEMO), and each appear to make essential contributions to I κ B phosphorylation.

Synonyms:

CHUK, TCF16, I kappa-B kinase alpha, IkBKA, IKK-alpha, IKK-A, IkappaB kinase, I-kappa-B

kinase 1, NFKBIKA, IKK1

Protein Families:

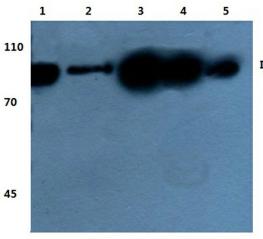
Druggable Genome, Protein Kinase

Protein Pathways:

Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway,

Toll-like receptor signaling pathway

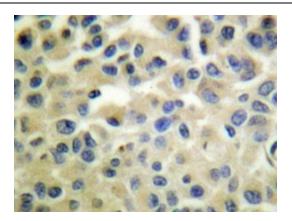
Product images:



IKKα/β (Q174) pAb

Western blot (WB) analysis of IKKa/β antibody (Cat.-No.: AP20307PU-N) at 1/500 dilution Lane 1:THP-1 whole cell lysateLane 2:HEK293T whole cell lysateLane 3:Mouse brain tissue lysateLane 4:Rat heart tissue lysateLane 5:NIH-3T3 whole cell lysate





Immunohistochemistry analyzes of IKKa/ β antibody (AP20307PU-N) in paraffin-embedded human breast carcinoma tissue.